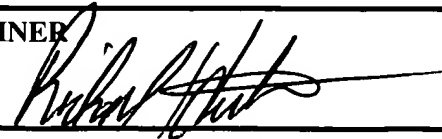


INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
RH	X	3,779,869	12/18/73	Zienty	195	68	
	X	4,075,321	02/21/78	Relyveld	424	92	
	X	4,138,290	02/06/79	McMullen et al.	195	31	
	X	4,695,455	09/22/87	Barnes et al.	424	93	
		4,745,064	05/17/88	Cook et al. (English Language equivalent to EPO 0 141 784)	435	257.1	
	X	4,757,008	07/12/88	Reverman	435	94	
	X	4,798,786	01/17/89	Tice et al.	435	177	
	X	4,849,217	07/18/89	Soares et al.	424	93	
	X	4,918,016	04/17/90	Leuba et al.	435	176	
	X	5,073,677	12/17/91	Helmer et al.	800	205	
	X	5,143,847	09/01/92	Kawase et al.	435	288	
	X	5,318,913	06/07/94	Relyveld	435	520	
		5,429,949	07/04/95	Radosevich et al.	435	257.1	
	X	5,437,993	08/01/95	Visuri	435	234	
	X	5,474,925	12/12/95	Maliyakal et al.	435	172.3	
	X	5,489,401	02/06/96	Freeman	264	4.3	
		5,508,193	4/16/96	Mandelbaum et al.	435	262.5	
	X	5,824,512	10/20/98	Pazirandeh et al.	435	69.7	
	X	5,849,296	12/15/98	Navia et al.	424	178.1	
	X	6,265,201 B1	07/24/01	Wackett et al.	435	257.3	
RH	X	6,284,522 B1	09/04/01	Wackett et al.	435	262.5	


FOREIGN PATENT DOCUMENTS

EXAMINER 	Date Considered 8/14/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
		0 141 784	10/29/84	EPO	C02F	3/34		X
RH	X	0 218 571 A2	04/15/87	EPO	—	—		
RH	X	0 234 415 A2	09/02/87	EPO				
RH	X	0 302 284 B1	02/08/89	EPO				
RH	X	0 340 378 B1	11/08/89	EPO				
RH	X	0 859 051 A1	08/19/98	EPO				
RH	X	DE 35 08 906 A1 (with English language abstract)	09/18/86	Germany				
RH	X	JP 616 9772 (with English language abstract)	06/21/94	Japan				
RH	X	RU 20 90 246 C1 (with English language abstract)	09/20/97	Russia				
RH	X	GB 2 244 711 A	12/11/91	United Kingdom				
RH	X	WO 90/07576(with English language abstract)	07/12/90	WIPO				
RH	X	WO 91/01087	02/07/91	WIPO				
RH		WO 95/01437	01/12/95	WIPO	C12N	5/12		
RH	X	WO 95/22625	08/24/95	WIPO				
RH	X	WO 97/15675	05/01/97	WIPO				
RH	X	WO 98/18941 (with English language abstract)	05/07/98	WIPO				
RH	X	WO 98/31816	07/23/98	WIPO				
RH	X	WO 01/55409 A2	08/02/01	WIPO				

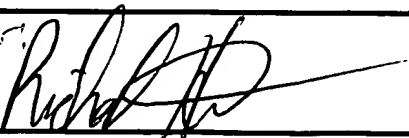
OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

EXAMINER 	Date Considered 2/4/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RH	X	Altschul et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucleic Acids Research</i> , 25:3389-3402 (1997).
RH	X	Arkin et al., "An algorithm for protein engineering: Simulations of recursive ensemble mutagenesis," <i>Proceedings of the National Academy of Sciences, USA</i> , 89:7811-7815 (1992).
RH		Armstrong et al., "Adsorption Catalyzed Chemical Hydrolysis of Atrazine," <i>Environ. Sci. Technol.</i> , 2(9), 683-689 (1968).
RH	X	Austin et al., "Production and field performance of transgenic alfalfa (<i>Medicago sativa</i> L.) expressing alpha-amylase and manganese-dependent lignin peroxidase," <i>Euphytica</i> , 85:381-393 (1995).
RH	X	Ausubel, et al., eds., <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., United States; title page, publication page, and table of contents only: 12 pages (1994).
RH	X	Baker, "Herbicide Resistance," <i>Tropical Grassy Weeds</i> , CAB International, Wallingford, England, Title page, publication page and pages 96-105 (1991).
RH	X	Bartel et al., "Isolation of New Ribozymes from a Large Pool of Random Sequences," <i>Science</i> , 261:1411-1418 (1993).
RH		Behki et al., "Metabolism of the Herbicide Atrazine by <i>Rhodococcus</i> Strains," <i>Applied and Environmental Microbiology</i> , 59(6), 1955-1959 (1993).
RH		Behki et al., "Degradation of Atrazine by <i>Pseudomonas</i> : N-Dealkylation and Dehalogenation of Atrazine and Its Metabolites," <i>J. Agric. Food Chem.</i> , 34, 746-749 (1986).
RH		Bergman et al., "Determination of Trace Amounts in Chlorine in Naphtha," <i>Anal. Chem.</i> , 29(2), 241-243 (1957).
RH	X	Bingham, "Registration of Alfalfa Hybrid Regen-Sy Germplasm for Tissue Culture and Transformation Research," <i>Crop Science</i> , 31:1098 (1991).
RH	X	Bock et al., "Selection of single-stranded DNA molecules that bind and inhibit human thrombin," <i>Nature</i> , 355:564-566 (1992).
RH	X	Box, et al., <i>Statistics for Experimenters : An Introduction to Design, Data Analysis, and Model Building</i> , John Wiley & Sons, Inc., New York, NY; Title page, publication page and table of contents only: 10 pages (1978).

EXAMINER:



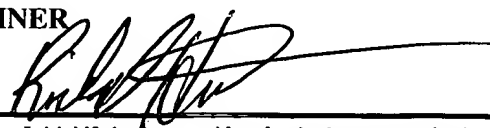
Date Considered

8/14/02

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

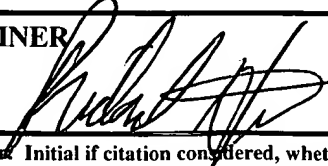
INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RA	X	Brosius, et al., "Gene organization and primary structure of a ribosomal RNA operon from <i>Escherichia coli</i> ," <i>Journal of Molecular Biology</i> , 148(2):107-127 (1981).
	X	Brown et al., "Role of genetic background in somatic embryogenesis in <i>Medicago</i> ," <i>Plant Cell Tissue Organ Culture</i> , 4:111-122 (1985).
	X	Burchfield et al., "Pyridine-alkali reactions in the analysis of pesticides containing active halogen atoms," <i>Agricultural and Food Chemistry</i> , 6:106-110 (1958).
	X	Caldwell et al., "Limits of Diffusion in the Hydrolysis of Substrates by the Phosphotriesterase from <i>Pseudomonas diminuta</i> ," <i>Biochemistry</i> , 30(30):7438-7444 (1991).
	X	Calogero et al., "In vivo recombination and the production of hybrid genes," <i>FEMS Microbiology Letters</i> , 97:41-44 (1992).
RA	X	Caren et al., "Efficient Sampling of Protein Sequence Space for Multiple Mutants," <i>Bio/Technology</i> , 12:517-520 (1994).
		Chang et al., "Construction and Characterization of Amplifiable Multicopy DNA Cloning Vehicles Derived from the P15A Cryptic Miniplasmid," <i>J. Bacteriol.</i> , 134(3), 1141-1156 (1978).
		Cook et al., "s-Triazines as Nitrogen Sources for Bacteria," <i>J. Agric. Food Chem.</i> , 29, 1135-1143 (1981).
RA		Cook, "Biodegradation of s-triazine xenobiotics," <i>FEMS Microbiology Reviews</i> , 46, 93-116 (1987).
RA	X	Crossway et al., "Integration of foreign DNA following microinjection of tobacco mesophyll protoplasts," <i>Molecular and General Genetics</i> , 202:179-185 (1986).
RA	X	Cwirla et al., "Peptides on phage: A vast library of peptides for identifying ligands," <i>Proceedings of the National Academy of Sciences, USA</i> , 87:6378-6382 (1990).
RA	X	Daniell et al., "Containment of herbicide resistance through genetic engineering of the chloroplast genome," <i>Nature Biotechnology</i> , 16:345-348 (1998).

EXAMINER 	Date Considered 8/15/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	


INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RH		de Bruijn et al., "The use of transposon Tn5 mutagenesis in the rapid generation of correlated physical and genetic maps of DNA segments cloned into multicopy plasmids - a review," <i>Gene</i> , 27, 131-149 (1984).
RH	X	Delagrave et al., "Searching Sequence Space to Engineer Proteins: Exponential Ensemble Mutagenesis," <i>Bio/Technology</i> , 11:1548-1552 (1993).
RH	X	Delagrave et al., "Recursive ensemble mutagenesis," <i>Protein Engineering</i> , 6:327-331 (1993).
RH	X	Dellaporta et al., "Molecular Cloning of the Maize <i>R-nj</i> Allele by Transposon Tagging with <i>Ac</i> ," <i>Chromosome Structure and Function</i> , Plenum Press, New York, Title page, publication page and pages 263-282 (1988).
RH		de Souza et al., "Identification of a Gene Cluster from <i>Pseudomonas</i> sp. ADP, Involved in Atrazine Biodegradation," <i>Abstracts of the 95th General Meeting of the American Society for Microbiology</i> , Abstract No. Q-89 (1995).
RH		de Souza et al., "Cloning, Characterization, and Expression of a Gene Region from <i>Pseudomonas</i> sp. Strain ADP Involved in the Dechlorination of Atrazine," <i>Applied and Environmental Microbiology</i> , 61(9) 3373-3378 (1995).
RH		de Souza et al., "Atrazine Chlorohydrolase from <i>Pseudomonas</i> sp. Strain ADP: Gene Sequence, Enzyme Purification, and Protein Characterization," <i>Journal of Bacteriology</i> , 178(16), 4894-4900 (1996).
RH	X	Eaton et al., "Metabolism of dibutylphthalate and phthalate by <i>Micrococcus</i> sp. strain 12B," <i>Journal of Bacteriology</i> , 151(1):48-57 (1982).
		Eaton et al., "Cloning and Analysis of s-Triazine Catabolic Genes from <i>Pseudomonas</i> sp. Strain NRRLB-12227," <i>Journal of Bacteriology</i> , 173, 1215-1222 (1991).
		Eaton et al., "Cloning and Comparison of the DNA Encoding Ammelide Aminohydrolase and Cyanuric Acid Amidohydrolase from Three s-Triazine-Degrading Bacterial Strains," <i>Journal of Bacteriology</i> , 173(3), 1363-1366 (1991).
RH	X	Elhai et al., "Conjugal Transfer of DNA to Cyanobacteria," <i>Methods in Enzymology</i> , 167:747-754 (1988).

EXAMINER 	Date Considered 8/15/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

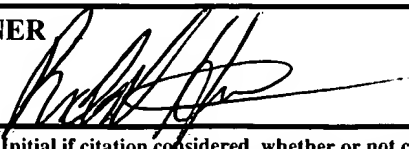
INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RH		EMBL Database entry TT3ITRA, Accession number M13165, July 16, 1988 Sequence: Huang et al., "Analysis of Tn3 sequences required for transposition and immunity, <i>Gene</i> , 41, 23-31 (1986).
RL		EMBL Database Entry RCTRZA Accession Number L16534; October 2, 1993, Shao et al., <i>Rhodococcus corallinus</i> (NRRL 15444B) N-ethylammeline chlorohydrolase (trzA) gene, complete cds.
BA	X	Epstein, "Estimation of Microquantities of Cyanide," <i>Analytical Chemistry</i> , 19: 272-274 (1947).
EH		Erickson et al., "Degradation of Atrazine and Related S-Triazines," <i>Critical Reviews in Environmental Control</i> , 19, 1-13 (1989).
RH	X	Fadullon et al., "Degradation of atrazine in soil by <i>Streptomyces</i> ," <i>Journal of Environmental Science and Health B</i> , 33(1):37-49 (1998).
RH	X	Flores et al., "Characterization of a glutaraldehyde stabilized yeast cell biocatalyst with β -galactosidase activity," <i>Journal of Fermentation and Bioengineering</i> , 81(6):524-529 (1996).
RH	X	Freeman et al., "Fixation and stabilization of <i>Escherichia coli</i> cells displaying genetically engineered cell surface proteins," <i>Biotechnology and Bioengineering</i> , 52(5): 625-630 (1996).
RH	X	Gallie et al., "The 5'-leader sequence of tobacco mosaic virus RNA enhances the expression of foreign gene transcripts in vitro and in vivo, <i>Nucleic Acids Research</i> , 15:3257-3273 (1987).
RH	X	Gallie, "Posttranscriptional Regulation of Gene Expression in Plants," <i>Annual Review of Plant Physiology and Plant Molecular Biology</i> , 44:77-105 (1993).
RH	X	Gamborg et al., "Nutrient Requirements of Suspension Cultures of Soybean Root Cells," <i>Experimental Cell Research</i> , 50:151-158 (1968).
RH		Giardina et al., "4-Amino-2-Chloro-1,3,5-triazine: A New Metabolite of Atrazine by a Soil Bacterium," <i>Agric. Biol. Chem.</i> , 44(9), 2067-2072 (1980).
RH	X	Goldman et al., "An Algorithmically Optimized Combinational Library Screened by Digital Imaging Spectroscopy," <i>Bio/Technology</i> , 10:1557-1561 (1992).
RH	X	Habig et al., "Assays for Differentiation of Glutathione s-transferases," <i>Methods in Enzymology</i> , 77:398-405 (1981).

EXAMINER 	Date Considered 8/15/02
*Examiner Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

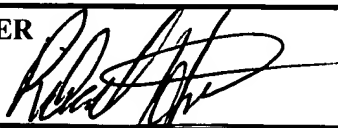
Examiner Initial	Copy Enclosed	Document Description
RH		Hanahan, <i>DNA Cloning Vol. II</i> ; D. M. Glover, Ed.; IRL Press Limited: Oxford, England; 109-135 (1985).
RH	X	Hayashi et al., "Simultaneous Mutagenesis of Antibody CDR Regions by Overlap Extension and PCR," <i>Biotechniques</i> , 17:310-315 (1994).
RH	X	Heijne et al., "Domain structure of mitochondrial and chloroplast targeting peptides," <i>European Journal of Biochemistry</i> , 180:535-545 (1989).
RH	X	Hermes et al., "Searching sequence space by definably random mutagenesis: Improving the catalytic potency of an enzyme," <i>Proceedings of the National Academy of Sciences, USA</i> , 87:696-700 (1990).
RH		Hsiao et al., "High-frequency transformation of yeast by plasmids containing the cloned yeast <i>ARG4</i> gene," <i>Proc. Natl. Acad. Sci. USA</i> , 76(8), 3829-3833 (1979).
RH	X	Ikuta et al., "The α -Amylase Gene as a Marker for Gene Cloning: Direct Screening of Recombinant Clones," <i>Biotechnology</i> , 8:241-242 (1990).
RH		Jessee et al., "Anaerobic Degradation of Cyanuric Acid, Cysteine, and Atrazine by a Facultative Anaerobic Bacterium," <i>Applied and Environmental Microbiology</i> , 45(1), 97-102 (1983).
RH	X	Jobling et al., "Enhanced translation of chimaeric messenger RNAs containing a plant viral untranslated leader sequence," <i>Nature</i> , 325:622-625 (1987).
RH	X	Jones et al., "Degradation of atrazine in estuarine water/sediment systems and soils," <i>Journal of Environmental Quality</i> , 11(4):632-638 (1982).
RH	X	Katz et al., "Cloning and Expression of the Tyrosinase Gene from <i>Streptomyces antibioticus</i> in <i>Streptomyces lividans</i> ," <i>Journal of General Microbiology</i> , 129:2703-2714 (1983).
RH	X	Kauffmann et al., "Entrapment of atrazine chlorohydrolase in sol-gel glass matrix," <i>Journal of Biotechnology</i> , 62(3):169-176 (1998).
RH	X	Keegstra et al., "Chloroplastic Precursors and Their Transport Across the Envelope Membranes," <i>Annual Review of Plant Physiology and Plant Molecular Biology</i> , 40:471-501 (1989).
RH	X	Kennedy et al., "Principles of immobilization of enzymes," <i>Handbook of Enzyme Biotechnology</i> , 3 rd Edition, Wiseman, ed., Ellis Horwood Limited, Hertfordshire, Great Britain, Title page, publication page and pages 235-310 (1995).

EXAMINER 	Date Considered 8/15/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RA	X	Klein et al., "High-velocity microprojectiles for delivering nucleic acids into living cells," <i>Nature</i> , 327:70-73 (1987).
RA	X	Kontchou et al., "Rapid biodegradation of the herbicide atrazine in soil inoculated with a pure bacterial culture," Proceedings of the IX Symposium of Pesticide Chemistry: Mobility and Degradation of Xenobiotics, (A.A.M. Del Re et al., eds.), Piacenza, Italy, 11-13 October 1993, pp. 533-536 (Istituto di Chimica Agraria ed Ambientale, Università Cattolica del Sacro Cuore).
	X	Koskinen et al., "Automation of atrazine and alachlor extraction from soil using a laboratory robotic system," <i>Soil Science Society of America Journal</i> , 55:561-562 (1991).
	X	LeBaron, "Ways and means to influence the activity and the persistence of triazine herbicides in soils," <i>Residue Reviews</i> , 32:311-353 (1970).
	X	LeBaron et al., "Summary of Accomplishments, Conclusions, and Future Needs," <i>Herbicide Resistance in Plants</i> , Wiley, N.Y., Title page, publication page and pages 349-362 (1982).
	X	LeBaron et al., "Herbicide resistance in weeds and crops," <i>Managing Resistance to Agrochemicals</i> , ACS Symposium Ser. 421, ACS Books, Washington, D.C., Title page, publication page and pages 336-352 (1990).
RV	X	Lee et al., "Superoxide dismutase: an evolutionary puzzle," <i>Proceedings of the National Academy of Sciences, USA</i> , 82:824-828 (1985).
RV		Leong et al., "Heme Biosynthesis in <i>Rhizobium</i> ," <i>J. Bio. Chem.</i> , 257(15) 8724-8730 (1982).
RV	X	Leung et al., "A Method for Random Mutagenesis of a Defined DNA Segment using a Modified Polymerase Chain Reaction," <i>Technique</i> , 1:11-15 (1989).
RV	X	Liu et al., "Ecology and evolution of microbial populations for bioremediation," <i>Trends in Biotechnology</i> , 11(8):344-352 (1993).
RV	X	Loos, "Indicator media for microorganisms degrading chlorinated pesticides," <i>Canadian Journal of Microbiology</i> , 21:104-107 (1975).
RV		Maleki et al., "Degradation of Atrazine by Soil Consortia: Characterization of Enzymatically Active Fractions from Cell-Bound and Cell-Free Enrichment Cultures," <i>Abstracts of the 95th General Meeting of the American Society for Microbiology</i> , Abstract No. Q-88 (1995).

EXAMINER




Date Considered

8/15/02

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

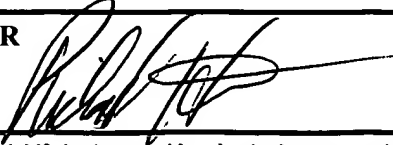
INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RH		Mandelbaum et al., "Mineralization of the s-Triazine Ring of Atrazine by Stable Bacterial Mixed Cultures," <i>Applied and Environmental Microbiology</i> , 59(6), 1695-1701 (1993).
RH		Mandelbaum et al., "Rapid Hydrolysis of Atrazine to Hydroxyatrazine by Soil Bacteria," <i>Environ. Sci. Technol.</i> , 27(9) 1943-1946 (1993).
RH		Mandelbaum et al., "Isolation and Characterization of a <i>Pseudomonas</i> sp. That Mineralizes the s-Triazine Herbicide Atrazine," <i>Applied and Environmental Microbiology</i> , 61(4) 1451-1457 (1995).
RH		Maniatis et al., <i>Molecular Cloning: A Laboratory Manual</i> , Cold Springs Harbor Press: Cold Spring Harbor, NY, Title page, publication page and table of contents (pp. v-xxxii) (1989).
RH	X	Marton et al., "DNA nicking favors PCR recombination," <i>Nucleic Acids Research</i> , 19:2423-2426 (1991).
RH	X	Mattan, Cynthia "Dechlorination of Atrazine by the Enzyme Atrazine Chlorohydrolase During Simulated Water Treatment Processes," Master of Sciences Thesis, University of Minnesota, 48 pages (1998).
RH		Maxam et al., "Sequencing End-Labeled DNA with Base-Specific Chemical Cleavages," <i>Methods in Enzymology</i> , 65, 499-561 (1980).
RH	X	McCafferty et al., "Phage antibodies: filamentous phage displaying antibody variable domains," <i>Nature</i> , 348:552-554 (1990).
RH		Messing et al., "A System for Shotgun DNA Sequencing," <i>Nucl. Acids Res.</i> , 9, 309-321 (1981).
RH	X	Mets et al., "Prospects for Genetic Modification of Plants for Resistance to Triazine Herbicides," <i>Biotechnology in Plant Science: Relevance to Agriculture in the Eighties</i> , Academic Press, Florida, Title page, publication page and pages 301-312 (1985).
RH	X	Meyerhans et al., "DNA recombination during PCR," <i>Nucleic Acids Research</i> , 18:1687-1691 (1990).
RH	X	Minshull, "Cleaning up our own backyard: developing new catabolic pathways to degrade pollutants," <i>Chemistry & Biology</i> , 2(12):775-780 (1995).

EXAMINER 	Date Considered 8/15/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

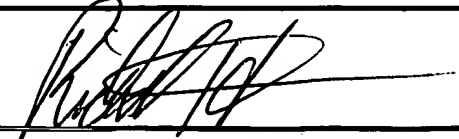
INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RA	X	Minshull et al., "Metabolic Pathway Engineering by Directed Evolution," abstract, Biodegradation of Organic Pollutants, UIB-GBF-CSIC-TUB Symposium, Mallorca, page 48-49 (June 29 - July 3, 1996).
RA	X	Minshull, "Evolving Enzymes for Biodegradation and Biosynthesis," Abstract, 4:10, IBC's 2 nd Annual Symposium on Exploiting Enzyme Technology, International Business Communications, 4 pages (February 20, 1997).
RA	X	Mosbach et al., eds., <i>Methods in Enzymology Vol. 135. Part B. Immobilized Enzymes and Cells</i> , Academic Press, Orlando, FL; title page, publication page, and table of contents only: 5 pages (1985).
RA		Mulbry, "Purification and Characterization of an Inducible s-Triazine Hydrolase from <i>Rhodococcus corallinus</i> NRRL B-15444R," <i>Applied and Environmental Microbiology</i> , 60(2), 613-618 (1994).
RA	X	Mulchandani et al., "Detoxification of organophosphate nerve agents by immobilized <i>Escherichia coli</i> with surface-expressed organophosphorus hydrolase," <i>Biotechnology and Bioengineering</i> , 63(2):216-223 (1999).
RA	X	Mullineaux, "Genetically Engineered Plants for Herbicide Resistance," <i>Plant Genetic Manipulation for Crop Protection</i> , CAB International, Wallingford England, pages 75-107 (1992).
RA	X	Murray et al., "Codon usage in plant genes," <i>Nucleic Acids Research</i> , 17:477-498 (1989).
RA		Nagy et al., "A Single Cytochrome P-450 System is Involved in Degradation of the Herbicides EPTC (S-Ethyl Dipropylthiocarbamate) and Atrazine by <i>Rhodococcus</i> sp. Strain NI86/21," <i>Applied and Environmental Microbiology</i> , 61(5), 2056-2060 (1995).
RA		Nair et al., "Effect of Two Electron Acceptors on Atrazine Mineralization Rates in Soil," <i>Environ. Sci. Technol.</i> , 26, 2298-2300 (1992).
RA	X	National Institutes of Health, "BLAST 2 Sequences," [online] United States; retrieved November 26, 2001, from the Internet: <URL:http://www.ncbi.nlm.nih.gov/gorf/bl2.html>, 1 page.

EXAMINER 	Date Considered 9/15/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

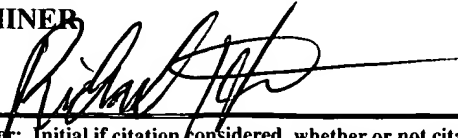
INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RA	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus No. PAU55933, Accession No. U55933, "Pseudomonas ADP atrazine chlorohydrolase (atzA) gene, complete cds," [online]. Bethesda, MD [retrieved on January 2, 2001]. Retrieved from Internet URL:<www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=Nucleotide&list_uids=3766245&dopt=GenBank >, 2 pages.
RA	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus No. AAC64663, Accession No. AAC64663, "atrazine chlorohydrolase [<i>Pseudomonas</i> sp. ADP]," [online]. Bethesda, MD [retrieved on January 2, 2001]. Retrieved from Internet URL:<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=Protein&list_uids=3766246&dopt=GenPept>, 2 pages.
RA	X	Niedz et al., "Green fluorescent protein: an <i>in vivo</i> reporter of plant gene expression," <i>Plant Cell Reports</i> , 14:403-406 (1995).
RA	X	NIH Guidelines for Research Involving Recombinant DNA Molecules, <i>Federal Register</i> , 59, July 5, 1994 (59 FR 34496-34547).
RA	X	Nissim et al., "Antibody fragments from a 'single pot' phage display library as immunochemical reagents," <i>EMBO Journal</i> , 13:692-698 (1994).
RA	X	Oettmeier et al., Effect of Different Photosystem II Inhibitors on Chloroplasts Isolated from Species Either Susceptible or Resistant Toward s-Triazine Herbicides," <i>Pesticide Biochemistry and Physiology</i> , 18:357-367 (1982).
RA	X	Oliphant et al., "Cloning of random-sequence oligodeoxynucleotides," <i>Gene</i> , 44:177-183 (1986).
RA	X	Olsen "Removal of Atrazine from Drinking Water Using Cross-linked Cells in Alginate Beads," <i>Fall 2000 Newsletter</i> , [online] Hamline University Biology Department, Saint Paul, MN [retrieved on December 4, 2001]. Retrieved from Internet URL<http://138.192.68.68/bio/faculty/malody/bioalumpage/bioalumpage/newsletters/newsletterF00.htm#Biology>, 5 pages.
RA	X	Ooms et al., "Octopine Ti-Plasmid Deletion Mutants of <i>Agrobacterium tumefaciens</i> with Emphasis on the Right Side of the T-Region," <i>Plasmid</i> , 7:15-29 (1982).
RA	X	Ow et al., "Transient and Stable Expression of the Firefly Luciferase Gene in Plant Cells and Transgenic Plants," <i>Science</i> , 234:856-859 (1986).

EXAMINER 	Date Considered 8/15/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RA	X	Paszowski et al., "Direct gene transfer to plants," <i>EMBO Journal</i> , 3:2717-2722 (1984).
RA	X	Prasher et al., "Cloning and Expression of the cDNA Coding for Aequorin, a Bioluminescent Calcium-Binding Protein," <i>Biochemical and Biophysical Research Communications</i> , 126:1259-1268 (1985).
RA	X	Przibilla et al., "Site-Specific Mutagenesis of the D1 Subunit of Photosystem II in Wild-Type <i>Chlamydomonas</i> ," <i>Plant Cell</i> , 3:169-174 (1991).
RA	X	Radke et al., "Evaluation of the Pyridine-Alkali Colorimetric Method for Determination of Atrazine," <i>Journal of Agriculture and Food Chemistry</i> , 14:70-73 (1966).
RA		Radosevich et al., "Degradation and Mineralization of Atrazine by a Soil Bacterial Isolate," <i>Applied and Environmental Microbiology</i> , 61(1), 297-302 (1995).
RA	X	Radosevich et al., "Biodegradation of atrazine in surface soils and subsurface sediments collected from an agricultural research farm," <i>Biodegradation</i> , 7(2):137-149 (1996).
RA	X	Ragab et al., "Colorimetric Methods for the Determination of Simazine and Related Chloro-s-triazines," <i>Journal of Agriculture and Food Chemistry</i> , 16:284-289 (1968).
RA	X	Ryan, "Resistance of Common Groundsel to Simazine and Atrazine," <i>Weed Science</i> , 18:614-616 (1970).
RA		Sadowsky et al., "Genetic Diversity in <i>Bradyrhizobium japonicum</i> Serogroup 123 and Its Relation to Genotype-Specific Nodulation of Soybean," <i>Applied and Environmental Microbiology</i> , 53(11), 2624-2630 (1987).
RA	X	Sadowsky et al., "Use of Phytoremediation Strategies to Bioremediate Contaminated Soils and Water," <i>Biology of Plant-Microbe Interactions</i> , International Society for Molecular Plant-Microbe Interactions, pages 527-532 (1996).
RA	X	Sambrook et al., <i>Molecular Cloning, a Laboratory Manual</i> , 2 nd Edition, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York; title page, publication page and table of contents only: 30 pages (1989).
RA		Schmidt et al., "Fluorescent-Antibody Approach to Study of Rhizobia in Soil," <i>Journal of Bacteriology</i> , 95(6), 1987-1992 (1968).

EXAMINER 	Date Considered 8/15/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RA	X	Scott et al., "Searching for Peptide Ligands with an Epitope Library," <i>Science</i> , 249:386-390 (1990).
RA	X	Selifonova et al., "Bioluminescent sensors for detection of bioavailable Hg(II) in the environment," <i>Applied and Environmental Microbiology</i> , 59(9):3083-3090 (1993).
RA	X	Shah et al., "Engineering Herbicide Tolerance in Transgenic Plants," <i>Science</i> , 233:478-481 (1986).
RA		Shao et al., "Cloning of the Genes for Degradation of the Herbicides EPTC (S-Ethyl Dipropylthiocarbamate) and Atrazine from <i>Rhodococcus</i> sp. Strain TE1," <i>Applied and Environmental Microbiology</i> , 61(5), 2061-2065 (1995).
RA		Shao et al., "Cloning and Expression of the s-Triazine Hydrolase Gene (<i>trzA</i>) from <i>Rhodococcus corallinus</i> and Development of <i>Rhodococcus</i> Recombinant Strains Capable of Dealkylating and Dechlorinating the Herbicide Atrazine," <i>Journal of Bacteriology</i> , 177(20), 5748-5755 (1995).
RA		Shingler et al., "Nucleotide Sequence and Functional Analysis of the Complete Phenol/3,4-Dimethylphenol Catabolic Pathway of <i>Pseudomonas</i> sp. Strain CF600," <i>Journal of Bacteriology</i> , 174(3), 711-724 (1992).
RA	X	Sikka et al., "Dissipation of Atrazine from Soil by Corn, Sorghum, and Johnsongrass," <i>Weeds</i> , 14:289-293 (1966).
RA	X	Smith et al., "Prediction of the persistence of the triazine herbicides atrazine, cyanazine, and metribuzine in Regina heavy clay," <i>Canadian Journal of Soil Science</i> , 69:587-595 (1989).
RA		Staskawicz et al., "Molecular Characterization of Cloned Avirulence Genes from Race 0 and Race 1 of <i>Pseudomonas syringae</i> pv. <i>glycinea</i> ," <i>Journal of Bacteriology</i> , 169(12), 5789-5794 (1987).
RA	X	Stemmer, "DNA shuffling by random fragmentation and reassembly: In vitro recombination for molecular evolution," <i>Proceedings of the National Academy of Sciences, USA</i> , 91:10747-10751 (1994).
RA	X	Stemmer, "Rapid evolution of a protein <i>in vitro</i> by DNA shuffling," <i>Nature</i> , 370:389-391 (1994).
RA	X	Stemmer et al. "Single-step assembly of a gene and entire plasmid from large numbers of oligodeoxyribonucleotides," <i>Gene</i> , 164:49-53 (1995).

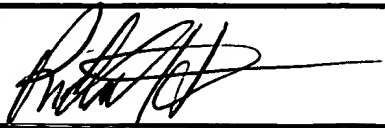
EXAMINER

Date Considered

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

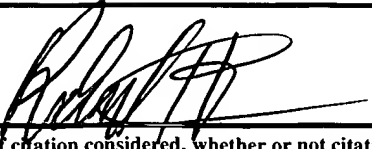
INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RA	X	Strong et al., "Field-scale bioremediation of atrazine-contaminated soil," American Society for Microbiology 1999 General Meeting, May 30-June 3, 1999, 1 page.
RV	X	Strong et al., "Field-scale remediation of atrazine-contaminated soil using recombinant <i>Escherichia coli</i> expressing atrazine chlorohydrolase," <i>Environmental Microbiology</i> , 2(1):91-98 (2000).
RV	X	Struthers et al., "Biodegradation of atrazine by <i>Agrobacterium radiobacter</i> J14a and use of this strain in bioremediation of contaminated soil," <i>Applied and Environmental Microbiology</i> , 64(9):3368-3375 (1998).
RV		Stucki et al., "Microbial Atrazine Mineralisation Under Carbon Limited and Denitrifying Conditions," <i>Wat. Res.</i> , 29(1):291-296 (1995).
RV	X	Sutcliffe, "Nucleotide sequence of the ampicillin resistance gene of <i>Escherichia coli</i> plasmid pBR322," <i>Proceedings of the National Academy of Sciences, USA</i> , 75:3737-3741 (1978).
RV	X	Tatusova et al., "BLAST 2 Sequences, a new tool for comparing protein and nucleotide sequences," <i>FEMS Microbiology Letters</i> , 174(2):247-250 (1999).
RV		U.S. Department of Agriculture-BARD Program, Grant No. 94-34339-1122, obtained from the Department of BARD (1994) Abstract only.
RA	X	USDA "Clean Up Herbicides with Plants," <i>USDA: Putting Research to Work for America</i> , 12 (1997).
PH		Van Solingen et al., "Fusion of Yeast Spheroplasts," <i>Journal of Bacteriology</i> , 130(2), 946-947 (1977).
RV	X	Viera et al., "The pUC plasmids, an M13mp7-derived system for insertion mutagenesis and sequencing with synthetic universal primers," <i>Gene</i> , 19(3):259-268 (1982).
RV		Wackett et al., ASM Poster Presentation, May 21-25, 1995.
RV	X	Wenk et al., "Rapid atrazine mineralisation in soil slurry and moist soil by inoculation of an atrazine-degrading <i>Pseudomonas</i> sp. strain," <i>Applied Microbiology and Biotechnology</i> , 49(5):624-630 (1998).
RA	X	Widmer et al., "Kinetics of Atrazine Hydrolysis in Water," <i>Journal of Environmental Science and Health</i> , B28:19-28 (1993).

EXAMINER 	Date Considered 9/15/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0023 0102	Serial No.: 09/898,238
	Applicant(s): Lawrence P. WACKETT et al.	Confirmation No.: 7517
	Filing Date: 3 July 2001	Group: 1652

Examiner Initial	Copy Enclosed	Document Description
RA	X	Winkelmann et al., "Degradation and bound residue formation of atrazine in a western Tennessee soil," <i>Environmental Toxicology and Chemistry</i> , 10:335-345 (1991).
RA	X	Winter et al., "Making Antibodies by Phage Display Technology," <i>Annual Review of Immunology</i> , 12:433-455 (1994).
RA	X	Wych et al., "Simultaneous Measurement of Nitrogen Fixation Estimated by Acetylene-Ethylene Assay and Nitrate Absorption by Soybeans," <i>Plant Physiology</i> , 62:443-448 (1978).
RA		Yanze-Kontchou et al., "Mineralization of the Herbicide Atrazine as a Carbon Source by a <i>Pseudomonas</i> Strain," <i>Applied and Environmental Microbiology</i> , 60(12), 4297-4302 (1994).
RA	X	Yuan et al., "Modification of Plant Components," <i>Current Opinion in Biotechnology</i> , 8(2):227-233 (1997).
RA	X	Zukowski et al., "Chromogenic identification of genetic regulatory signals in <i>Bacillus subtilis</i> based on expression of a cloned <i>Pseudomonas</i> gene," <i>Proceedings of the National Academy of Sciences, USA</i> , 80:1101-1105 (1983).

EXAMINER 	Date Considered 8/15/02
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	